STEPHEN MITCHELL

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WORK EXPERIENCE

Verizon — Ashburn, VA
Associate Software Developer — June 2022 - Present

ATPCO — Dulles, VA
Java Software Engineer Intern — May 2021 - Aug 2021

EDUCATION

Master of Science: Computer Science — Graduation: May 2025
George Mason University

Bachelor of Science: Engineering, Minor in Computer Science — Graduation: May 2022
James Madison University - GPA: 3.93

TECHNOLOGY EXPERIENCE

Python	Designing independent packages to build modular applications; Data analysis using NumPy, pandas, and Matplotlib
Go	Effective concurrent programming; Designing reusable packages
Java	Building on and testing microservices in Spring Boot 2
JavaScript	Frontend development in ReactJS; RESTful API consumption for dynamic webpages

PROJECTS

Real Time Pose — Aug 2021 - Present
A Python package I maintain for creating body-interactive GUIs with the help of computer vision. Built as a tool for research institutions and R&D departments for experimenting with novel methods of haptic feedback. Utilizes Python protocols to create a hexagonal architecture and minimize inter-module coupling. Designed to be extensible and to support various hardware, communication protocols, user interfaces, etc.
On GitHub at: mitchellss/real_time_pose

Recipe Rest — May 2021 - Present
A Go web app for for a more organized home cook. Stores and formats recipes in a mobile-friendly way that is optimized for use in the kitchen (easily accessible ingredients list, metric weight for measurements, built in timers, etc). Containerized using Docker.
On GitHub at: mitchellss/recipe_rest

Embedded Systems for Precision Agriculture — Aug 2020 - May 2022
Used a ground-based sensor network to apply precision agriculture practices to a vineyard in Rockingham, Virginia. Applied a regression neural network on collected data to determine micro-climate variations on local weather forecasts and predict frost. Created a localized weather model with temperature predictions that were 56% more accurate than local weather forecasts. Displayed live results to client using a ReactJS frontend.
On GitHub at: mitchellss/skyprecision_client

PUBLICATIONS

S. Mitchell, J. Forsyth and M. S. Thompson, "Exploring Amateur Performance in Athletic Tests Using Wearable Sensors," 2021 Systems and Information Engineering Design Symposium (SIEDS), 2021, pp. 1-6, doi: 10.1109/SIEDS52267.2021.9483715.

AWARDS AND RECOGNITIONS

JMU Engineering Class of 2022 Valedictorian — Awarded: 04/2022
JMU Engineering xChange Economic Value Capstone Award — Awarded: 04/2022